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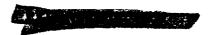
Form Approved
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90-890000550

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Comprehensive Assessment Information Rule



When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office For Agency Use Only:

Date of Receipt:

Document

Control Number:

Docket Number:

EPA Form 7710-52

		SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION
PAR'		GENERAL REPORTING INFORMATION
1.0		his Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
CBI	C	ompleted in response to the <u>Federal Register</u> Notice of [1]2 [2]2 [8]3 mo. day year
[_]	a	. If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No [00] 5 8 4]-[8 4]-[9
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule
		CAS No. of chemical substance [_]_]_]_]_]_]_]_]_[_]_
		Name of chemical substance
1.02	Ide	entify your reporting status under CAIR by circling the appropriate response(s).
CBI		nufacturer
[_]		oorter 2
		ocessor
		manufacturer reporting for customer who is a processor4
		processor reporting for customer who is a processor
	lark	(X) this box if you attach a continuation sheet.

1.03 <u>CBI</u> (in the above-listed Federal Register Notice?
1.04 <u>CBI</u> []	under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response. Yes
1.05 <u>CBI</u> [_]	date of the rule in the Federal Register Notice under which you are reporting. If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name. Trade name
1.06 <u>CBI</u> [_]	Certification The person who is responsible for the completion of this form must sign the certification statement below: "I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate." MATTHEW D. WATSON SIGNATURE NAME SIGNATURE DATE SIGNED ENVIRONMENTAL ENGINEER (201) 393 - 2724 TITLE TELEPHONE NO.
[<u></u>] M	ark (X) this box if you attach a continuation sheet.

<u>CBI</u>	with the required information of within the past 3 years, and the for the time period specified is are required to complete section.	f you have provided EPA or another on a CAIR Reporting Form for the linis information is current, accuration the rule, then sign the certific on 1 of this CAIR form and provide submitted. Provide a copy of anyetion 1 submission.	sted substance e, and complete ation below. You any information
	information which I have not in	best of my knowledge and belief, a cluded in this CAIR Reporting Form and is current, accurate, and comp	has been submitted
	NAME	CTONATION	
	NANE	SIGNATURE	DATE SIGNED
	TITLE	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION
<u>CBI</u>	"My company has taken measures and it will continue to take the been, reasonably ascertainable using legitimate means (other ta judicial or quasi-judicial prinformation is not publicly ava	e asserted any CBI claims in this rements truthfully and accurately apich you have asserted. to protect the confidentiality of rese measures; the information is not by other persons (other than govern han discovery based on a showing of occeeding) without my company's consilable elsewhere; and disclosure of my company's competitive position.	the information, ot, and has not ment bodies) by special need in the information
	NAME	CTCNATUDE	
	NAIL	SIGNATURE	DATE SIGNED
	TITLE	TELEPHONE NO.	

1.09	Facility Identification
<u>CBI</u>	Name [A][][][][][][][][][][][][][][][][][][]
[_]	Address [P]T]] [] [] [] [] [] [] [] [] [
	(TIEITIEIBIOIDIOI_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
	[N] T] [0] T] 6] 0] 8][]]]] State
	Dun & Bradstreet Number
	EPA ID Number
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code
	0ther SIC Code
	Other SIC Code
1.10	Company Headquarters Identification
CBI	Name [4][][][][][][][][][][][][][][][][][][]
[_]	Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[N] T []]]]]][]]]]]] State
	Dun & Bradstreet Number
	Employer ID Number

1.11	Parent Company Identification
<u>CBI</u>	Name [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]]]]]-[[]]]]] State
	Dun & Bradstreet Number
1.12	Technical Contact
<u>CBI</u>	Name [[]][][][][][][][][][][][][][][][][][]
	(元)百円回回図回回回回回回回回回回回回回回回回回回回回回回回回回回回回回回回回回回
	[<u>시]코]</u> [<u>이기[[0] [</u>][]]]] State
	Telephone Number
.13	This reporting year is from

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
<u>CBI</u>	Name of Seller [N]A]]]]]]]]]]]]]]]]]]]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_]_][_]]_]_]_]
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
<u>CBI</u>	Name of Buyer []]]]]]]]]]]]]]]]]]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]]]][_]]]]]]] State
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]]]]]]
	Telephone Number
I_] !	Mark (X) this box if you attach a continuation sheet.

Classification	Quantity (kg/yr)
Manufactured	$\widehat{}$
Imported	
Processed (include quantity repackaged)	
Of that quantity manufactured or imported, report that quantity:	
In storage at the beginning of the reporting year	
For on-site use or processing	
For direct commercial distribution (including export)	
In storage at the end of the reporting year	··
Of that quantity processed, report that quantity:	
In storage at the beginning of the reporting year	
Processed as a reactant (chemical producer)	
Processed as a formulation component (mixture producer)	••
Processed as an article component (article producer)	0.849 Ko
Repackaged (including export)	··
In storage at the end of the reporting year	
•	
\cdot	

Component			
Name Name	Supplier Name	Average Composition (specify property property property property property (45%)	by Weigh
		Total	100%
	·		

2.04	State the quantity of the listed substance that your facility manufactured, imported or processed during the 3 corporate fiscal years preceding the reporting year in descending order.
CBI	
[_]	Year ending
	Quantity manufactured kg
·	Quantity imported kg
	Quantity processedkg
	Year ending
	Quantity manufactured kg
	Quantity imported kg
	Quantity processed kg
	Year ending
	Quantity manufactured kg
	Quantity imported kg
	Quantity processed kg
2.05 <u>CBI</u>	Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.
[_]	Continuous process 1
	Semicontinuous process
	Batch process
	3
	,
[_]	Mark (X) this box if you attach a continuation sheet.

2.06	Specify the manner in	which you processed		
CBI	appropriate process t	ypes.	the listed substance.	Circle all
[_]	Continuous process .	•••••	• • • • • • • • • • • • • • • • • • • •	
	Semicontinuous process	S	• • • • • • • • • • • • • • • • • • • •	
	Batch process		• • • • • • • • • • • • • • • • • • • •	•••••••••••••••••••••••••••••••••••••••
2.07 CBI	State your facility	_	for manufacturing or per or batch processor,	
[_]	Manufacturing capacity	•		
	Processing capacity			kg/
	Processing capacity .	• • • • • • • • • • • • • • • • • • • •		kg/
2.08 <u>CBI</u> []	If you intend to increamanufactured, imported, year, estimate the increase volume.	ease or decrease bas	quantity of the listed time after your curre sed upon the reporting	substance nt corporate fiscal year's production
		Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)
4	Amount of increase		_	
1	Amount of decrease			NA
•				NA
				·
				•
] Ma	rk (X) this box if you	attach a continuation	n shoot	
	·		u snee[.	

CBI The process Type #1 (The process type involving the largest quantity of the listed substance.) Hanufactured Process Type #2 (The process type involving the 2nd largest quantity of the listed substance.) Hanufactured Processed Process Type #3 (The process type involving the 3rd largest quantity of the listed substance.) Manufactured Processed Proc	2.09 	substance duri	largest volume manufacturing or processing proceed, specify the number of days you manufactured ng the reporting year. Also specify the averages type was operated. (If only one or two operated	or processed	d the listed
Process Type #1 (The process type involving the largest quantity of the listed substance.) Manufactured	CBI				
Process Type #2 (The process type involving the 2nd largest quantity of the listed substance.) Manufactured			•	Days/Year	
Process Type #2 (The process type involving the 2nd largest quantity of the listed substance.) Manufactured Processed		Process Type #1	(The process type involving the largest quantity of the listed substance.)		
Process Type #2 (The process type involving the 2nd largest quantity of the listed substance.) Manufactured	-		Manufactured	180	-8-
Process Type #3 (The process type involving the 3rd largest quantity of the listed substance.) Manufactured Processed Processed Processed So 8 2.10 State the maximum daily inventory and average monthly inventory of the listed substance that was stored on-site during the reporting year in the form of a bulk chemical. Maximum daily inventory Maximum daily inventory kg Average monthly inventory kg			Processed	1400	8
Process Type #3 (The process type involving the 3rd largest quantity of the listed substance.) Manufactured		Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
Process Type #3 (The process type involving the 3rd largest quantity of the listed substance.) Manufactured			Manufactured	इ ट	
Manufactured			·	50	8
Processed		Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
State the maximum daily inventory and average monthly inventory of the listed substance that was stored on-site during the reporting year in the form of a bulk chemical. Maximum daily inventory kg Average monthly inventory kg			Manufactured	*	
Maximum daily inventory			Processed	50	8
	<u>BI</u>	chemical. Maximum daily in	ventory	of the list the form of	a bulk
		fark (X) this box	if you attach a continuation sheet.		

tured, impo	oduct Types List any by substance in concentration or processed. The source from which the bype into the product (e.g., o	source of byproduc	ts, coproducts,	is manufac- or impurities
				, , , , , , , , , , , , , , , , , , , ,
CAS No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify ± % precision)	Source of By products, Coproducts, or Impurities
	**			

^[] Mark (X) this box if you attach a continuation sheet.

2.12 <u>CBI</u> [_]	Existing Product Types List all exis imported, or processed using the listed the quantity of listed substance you us total volume of listed substance used d quantity of listed substance used captilisted under column b., and the types of the instructions for further explanation	subst e for uring vely o f end-	ance during the re each product type the reporting year n-site as a percen users for each pro	porting year. List as a percentage of the . Also list the tage of the value
	a. b. % of Quantit Manufactured Imported, o Product Types ¹ Processed	,	c. % of Quantity Used Captively On-Site	d. Type of End-Users ²
	<u> 1007</u>		100%	BH
	**IUse the following codes to designate property of the solvent **B = Synthetic reactant **C = Catalyst/Initiator/Accelerator/	L = M = N = O = P = R = V = V = es X = e type	Moldable/Castable Plasticizer Dye/Pigment/Color Photographic/Reprand additives Electrodeposition Fuel and fuel add Explosive chemical Fragrance/Flavor Pollution control Functional fluids Metal alloy and all Rheological modification Other (specify) of end-users:	n/Plating chemicals ditives als and additives chemicals chemicals and additives dditives

2.13	import, or process using the listed substance at any time after your current corporate fiscal year. For each use, specify the quantity you expect to manufactur import, or process for each use as a percentage of the total volume of listed substance used during the reporting year. Also list the quantity of listed substance						
	a.	b. .		c.	d.		
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed		% of Quantity Used Captively On-Site	Type of End-Users ²		
				700 78	76 17		
		·					
		·	_				
	¹ Use the following code	es to designate proc	luct	types:			
A = Solvent B = Synthetic reactant C = Catalyst/Initiator/Accelerator/				Moldable/Castable Plasticizer Dye/Pigment/Color Photographic/Repr and additives Electrodeposition Fuel and fuel add Explosive chemica Fragrance/Flavor Pollution control Functional fluids Metal alloy and ac Rheological modifi Other (specify)	/Plating chemicals itives ls and additives chemicals chemicals and additives dditives		
	<pre>I = Industrial CM = Commercial</pre>	CS = Cons	umer	pecify) MILITAR	<u> </u>		
[_] M	lark (X) this box if you	ı attach a continuat	ion	sheet.			

a.	b.	C.	d.		
		Average % Composition of			
Product Type ¹	Final Product's Physical Form ²	Listed Substance in Final Product	Type of End-Users		
KHA	THE F4	F4 0%	MA H		
	*,				
¹ Use the following co	des to designate pro	oduct types:			
A = Solvent		L = Moldable/Castable/	Rubber and addi		
B = Synthetic reactar	ıt ,	M = Plasticizer			
C = Catalyst/Initiate	or/Accelerator/	N = Dye/Pigment/Colora	int/Ink and addi		
Sensitizer		U = Pnotographic/Repro	graphic chemica		
D = Inhibitor/Stabil: Antioxidant	zer/Scavenger/	and additives			
E = Analytical reager		P = Electrodeposition/	P = Electrodeposition/Plating chemicals		
F = Cholator/Coordinate	1t	Q = Fuel and fuel addi	tives		
<pre>F = Chelator/Coagular G = Cleanser/Deterger</pre>	t/Sequestrant	R = Explosive chemicals and additive			
H = Lubricant/Friction	t/pegreaser	S = Fragrance/Flavor c	hemicals		
agent	modifier/Antiwear		chemicals		
I = Surfactant/Emulsi	fior	U = Functional fluids	and additives		
J = Flame retardant	rier	V = Metal alloy and ad	ditives		
K = Coating/Binder/Ad	hesive and addition	W = Rheological modifi	er		
•					
'Use the following cod	es to designate the	final product's physical	l form:		
A = Gas		stalline solid			
B = Liquid	F3 = Grains	nules			
C = Aqueous solution	F4 = 0th	er solid			
D = Paste	G = Gel		·		
E = Slurry F1 = Powder	H = 0 the	er (specify) 🟂			
Use the following code	es to designate the	type of end-users:			
<pre>1 = Industrial</pre>	CS = Cons	umer			
CM = Commercial	H = 0the	r (specify) MILITARY			
		•			

CBI		rcle all applicable modes of transportation used to deliv sted substance to off-site customers.	er bulk shipments of the
[_]		uckNA	
	Ra	ilcar .MA	• • • • • • • • • • • • • • • • • • • •
	Bai	rge, Vessel MA	• • • • • • • • • • • • • • • • • • • •
	Pip	pelineNA	• • • • • • • • • • • • • • • • • • • •
	Pla	ine NA	••••••
	Oth	er (specify)	
		er (specify)	••••••
2.16 <u>CBI</u>	OI	tomer Use Estimate the quantity of the listed substance prepared by your customers during the reporting year for end use listed (i-iv).	e used by your customers use under each category
		egory of End Use	
	i.	Industrial Products	
		Chemical or mixture	kg/y
		Article	kg/yı
	ii.	Commercial Products	.
		Chemical or mixture	O kg/yr
		Article	kg/yr
	iii.	Consumer Products	- Rg/yI
		Chemical or mixture	^
		Article	O kg/yr
	iv.	Other	O kg/yr
		Distribution (excluding export)	•
		Export	kg/yr
		Quantity of substance consumed as reactant	0 kg/yr
		Unknown customer uses	/00/6 kg/yr
			kg/yr
_] M	lark	(X) this box if you attach a continuation sheet.	
		10	

SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATI	SECTION	3 PROCESSOR	RAU MATERTAL	TDENTTETCATTON
---	---------	-------------	--------------	----------------

			
PART	A GENERAL DATA		
3.01 CBI [_]	Specify the quantity purchased and the average price for each major source of supply listed. Product trad The average price is the market value of the product substance.	oc are treated as	h
	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.		
	The listed substance was transferred from a different company site.		
	The listed substance was purchased directly from a manufacturer or importer.		
	The listed substance was purchased from a distributor or repackager.	0.849	_ NA
	The listed substance was purchased from a mixture producer.		
3.02 CBI	Circle all applicable modes of transportation used to your facility. Truck	•••••••••••••••••••••••••••••••••••••••	
1	Mark (X) this box if you attach a continuation sheet.		

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to your facility.
[_]		Bags
		Free standing tank cylinders
		Tank rail cars 4
		Hopper cars 5
		Tank trucks 6
		Hopper trucks 7
		Drums 8
		Pipeline 9
		Other (specify)10
	b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
		Tank cylinders mmHg
		Tank rail cars mmHg
		Tank trucks mmHg
		•
_] 1	lark	(X) this box if you attach a continuation sheet.

PART	B RAW MATERIAL IN THE FO	ORM OF A MIXTURE		
3.04 <u>CBI</u>	coo mincure, the halle	ion by weight of the	form of a mixture, list the or manufacturer(s), an esset listed substance in the porting year.	
_	Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)
	SOLITHANE S-113	MORTON THIKOL	7%	0.477
	ABLEBOND 5240-2	4BLESTIK	490	0.236
	CONATHANE	CONAP, INC.	290	0.136

[[]_] Mark (X) this box if you attach a continuation sheet.

reporting year in the fo the percent composition,	orm of a class I chemical, class by weight, of the listed subs	
	Quantity Used (kg/yr)	<pre>% Composition by Weight of Listed Sub stance in Raw Materia (specify ± % precision</pre>
Class I chemical		
Class II chemical		
•		
Polymer	世号	
	19.54	B.849 139
	·	

SECTION 4 PHYSICAL/CHEMICAL PROPERTIES

<u> </u>				
Gene	ral Instructions:			
If y 4 th	ou are reporting on a m at are inappropriate to	ixture as defined in the mixtures by stating "NA	glossary, reply to que	estions in Sectio
For o	questions 4.06-4.15, if	you possess any hazard with the property of the possible of the property of th	varning statement, labe	el, MSDS, or othe reasonable
PART	A PHYSICAL/CHEMICAL DA	ATA SUMMARY		·
4.01 CBI	substance in the final	nrity for the three major nufactured, imported, or product form for manufa or at the point you begi	processed. Measure th	e purity of the
		Manufacture	Import	Process
	Technical grade #1	NA purity	% purity	% purity
	Technical grade #2	% purity	% purity	% purity
	Technical grade #3	% purity	% purity	% purity
	¹ Major = Greatest quan	tity of listed substance	manufactured, imported	d or processed.
.02	an MSDS that you develo	tly updated Material Safe ry formulation containing oped and an MSDS develope ther at least one MSDS ha	the listed substance.	If you possess
	Yes			

Indicate whether the MSDS was developed by your company or by a different source.

 $[\underline{\hspace{1cm}}]$ Mark (X) this box if you attach a continuation sheet.

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes
	No
4.04	For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at
CBI	the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

	Physical State				
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas
Manufacture	1	2	3	4	5
Import	1	2	3	4	5
Process	1	2	(3)	4	5
Store	1	2	<u>3</u>	4	. 5
Dispose	1	2	3	4	5
Transport	1	2	3	4	5

[[]_] Mark (X) this box if you attach a continuation sheet.

MATERIAL SAFETY DATA SHEET

*P*J-

CHEMICAL NAMES

CAS NUMBERS PERCENT EXPOSURE LIMIT (IN AIR)

ACGIH (TLV) OSHA(PEL)

Toluene diisocyanate 584-84-9 < 4 0.005 ppm 0.02 ppm (TDI)

*In a Draft of a lifetime bioassay, the National Toxicology Program reported that TDI caused an increase in the number of tumors in exposed rats over those counted in non-exposed rats. The TDI was administered by gavage and was introduced into the stomach through a tube. In lifetime inhalation studies conducted by Hazelton Labs for the International Isocyanate Institute, TDI did NDT demonstrate carcinogenic activity in rats or mice.

VAPOR DENSITY(AIR=1): not applicable MELTING POINT: not applicable SPECIFIC GRAVITY: 1.1 BOILING POINT: 482° F.

SOLUBILITY IN WATER: Insoluble PERCENT VOLATILE BY VOLUME: < 5% VAPOR PRESSURE, mmHg at 20°C: not applicable EVAPORATION RATE (ETHER = 1): < 1

APPEARANCE AND ODOR: Slue transparent heavy paste; sharp pungent odor.

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE
INHALED: May cause respiratory tract, mucous membrane irritation, and sensitization. Symptoms may be delayed and could include dry cough, chest lightness, wheezing, shortness of breath
CONTACT WITH SKIN: May cause irritation, dermatitis and possible skin sensitization given prolonged or repeated skin contact CONTACT WITH EYES: Can cause irritation, tearing, reddening, and blurred vision.

ABSORBED THROUGH SKIN: Absorption through skin may be harmful. SWALLOWED: Possible nausea, vomiting, and gastrointestinal pain.

HEALTH EFFECTS OR RISKS FROM EXPOSURE.
ACUTE: Oral LD50: 5800 mg/kg (rat)

Inhalation LC50 (rat): range 12.7 to 66 ppm for 1-4 hours. See symptoms of overexposure, section V. CHRONIC: Extended exposure to isocyanate vapors may cause sensitization resulting in impaired function. FIRST AID: EMERGENCY PROCEDURE EYE CONTACT: Flush with water for at least 15 minutes. Seek medical attention. SKIN CONTACT: Wash immediately with soap and water. If irritation persists, seek medical attention. INHALED: Remove to fresh air immediately. Administer oxygen or artifical respirator as needed. Obtain medical attention. Asthma type symptoms may develop. SWALLOWED: Seek medical attention immediately, and show insert card. SUSPECTED CANCER AGENT? For Toluene diisocyanate: YES by NTP STABILITY: X Stable Unstable CONDITIONS TO AVOID: Storage at temperatures above 110° F. and moisture. INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing substances HAZARDOUS DECOMPOSITION PRODUCTS (INCLUDING COMBUSTION PRODUCTS): Carbon monoxide, oxides of nitrogen, possible aromatic amines, aldehydes, and ammonia. HAZARDOUS POLYMERIZATION: May occur X Will not occur CONDITIONS TO AVOID: None determined SPILL RESPONSE PROCEDURES : Wipe up with solvent saturated toweling and collect in an appropriate container for disposal PREPARING WASTES FOR DISPOSAL: Dispose in approved chemical disposal area or in a manner which complies with all local, state, and federal regulations VENTILATION AND ENGINEERING CONTROLS: Use adequate ventilation. Local exhaust is recommended when appropriate to control employee's exposure. RESPIRATORY PROTECTION: Use NIOSH approved organic vapor respirator if needed. EYE PROTECTION: Safety goggles with side shields GLOVES: Rubber OTHER CLOTHING AND EQUIPMENT: Protective equipment to cover exposed areas WORK PRACTICES, HYGIENIC PRACTICES: Vent curing oven to outdoors OTHER HANDLING AND STORAGE REQUIREMENTS: Store frozen at all times PROTECTIVE MEASURES DURING MAINTENANCE OF CONTAMINATED EQUIPMENT: Avoid contact with skin, eyes and clothing. Good housekeeping is

required. Avoid inhalation of vapors.

DISCLAIMER: THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND NOT IN COMBINATION WITH ANY OTHER PRODUCT(S). SUCH INFORMATION AND RECOMMENDATIONS ARE BASED ON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND ARE BELIEVED TO BE ACCURATE BUT NO GUARANTY OF THEIR ACCURACY IS MADE. IN EVERY CASE WE URGE AND RECOMMEND THAT PURCHASERS BEFORE USING ANY PRODUCT MAKE THEIR OWN TESTS TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS AND TO DETERMINE TO THEIR OWN SATISFACTION WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES. THE PRODUCT(S) DISCUSSED HEREIN ARE SOLD WITHOUT ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED.

MORTON THIOKOL, INC.

Morton Chemical Division



Material Safety Data Sheet

SECTION I: PRODUCT IDENTIFICATION

PRODUCT NAME:

S-113

CHEMICAL NAME: COMMON NAME:

Isocyanate Terminated Polyol Isocyanate Terminated Polvol

CAS NUMBER:

PRODUCT USE:

Coatings and Castings

EMERGENCY PHONE:

815-338-1800 (24 hours/day)

OTHER EMERGENCY PHONE: EFFECTIVE DATE:

312-807-3142

SUPERSEDES:

December, 1987 October 15, 1986

SECTION II: HAZARDOUS INGREDIENTS

OSHA CHEMICAL NAME/COMMON NAME CAS NO. PEL 2 TWA Toluene Diisocyanate TDI 584-84-9 6-7 0.02ppm 0.005ppm 0.02ppm

1 Typical amount, not a specification

2 Governed by a ceiling limit value (c) - The value which should not be exceeded even instantaneously.

SECTION III: PHYSICAL DATA

BOILING POINT (760 mm Hg):

482 degrees F (250 degrees C)

SPECIFIC GRAVITY (Water = 1):

1.073

VAPOR PRESSURE (mm Hg):

Not applicable

VAPOR DENSITY (Air=1):

> 6

% NONVOLATILE:

93

pH:

EVAPORATION RATE (Ether=1):

Not applicable < 1

SOLUBILITY IN WATER:

Not applicable

APPEARANCE:

Pale Yellow

ODOR:

Irritating Pungent Odor

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT: > 200 degrees F (> 94 degrees C)

FLAMMABLE LIMITS Lel: Not Applicable

<u>Uel:</u> Not Applicable

METHOD USED: SETAFLASH

EXTINGUISHING MEDIA: Foam, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear NIOSH/MSHA approved self-contained positive pressure breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None as far as known.

HAZARDOUS DECOMPOSITION PRODUCTS: If burned, gives off carbon monoxide, carbon dioxide, nitrogen oxides, aromatic amines, aldehydes, and hydrogen cyanide.

S-113 Page 1 of 5

ORAL TOXICITY: Unknown for product mixture. Animal experiments indicate that the toxic effects of TDI or polymeric isocyanates, when ingested, are slight. The LD50 in rats for TDI is 5840mg/Kg. From these experiments, it is believed that ingestion of TDI or polymeric isocyanates would not be fatal to humans, but could result in irritation and corrosive action on the mouth and stomach tissue. See 3

DERMAL TOXICITY: Unknown for product mixture. Isocyanates react with skin protein and tissue moisture. If not promptly removed, liquid spills on the skin can cause reddening, swelling, and blistering of exposed skin. REPEATED SKIN CONTACT HAS CAUSED SKIN SENSITIZATION IN HUMANS AND SHOULD BE AVOIDED.

TDI: Skin-Rabbit: 500 mg/24H MOD See Note 3

EYE TOXICITY: Unknown for product mixture. EYE CONTACT - LIQUID ISOCYANATES SPIASHED INTO THE EYES CAN BE HARMFUL TO THE DELICATE EYE TISSUE AND MUST BE AVOIDED. Injury results from reaction of the isocyanate with the eye fluid which may dehydrate the tissue and result in severe irritation of the eyelid and possible damage to the cornea (corneal opacity). Exposure to high concentrations of isocyanate vapor can lead to formation of solid crystals in the eye fluid causing mechanical irritation of the eyes hours after exposure. TDI Eye-Rabbit: 100 mg SEV See Note 3

INHALATION TOXICITY: Unknown for product mixture. Inhalation of isocyanate vapors can produce severe irritation of the mucous membranes in the respiratory tract, i.e. nose, throat, and lungs. Exposure of humans to concentrations of isocyanate vapor in excess of the maximum acceptable concentration has caused illness characterized by breathlessness, chest discomfort and reduced pulmonary function. Massive exposure to high concentrations has caused, within minutes, irritation of the trachea and larynx and severe coughing spasms. Massive exposure may also lead to bronchitis, bronchial spasm, and/or pulmonary edema (chemical pheumonitis). Concentrations of isocyanate vapors should be maintained below the TLV by engineering controls. Can cause sensitization in humans.

TDI Inhalation-Human TCLO: 0.02 ppm/2Y:PUL See Note 3 TDI Inhalation-Human TCLO: 0.5 ppm:IRR See Note 3

CHRONIC TOXICITY: Unknown for product mixture. Toluene Diisocyanate (TDI) is considered a suspect carcinogen as tested by National Toxicology Program, 1983, in rats and female mice. Administered by gavage to rats, TDI caused subcutaneous neoplasms or cancers in both sexes. Additionally, males developed pancreatic neoplasms and females pancreatic, liver and mammary neoplasms. In mice similarly exposed, TDI caused circulatory neoplasms and cancers (combined) and liver neoplasms in females but was not carcinogenic to males. (NTP 1983 Program Tech Report on Carcinogenic Study of Commercial Grade of TDI.)

EFFECTS OF OVEREXPOSURE:

INGESTION:

Not established for product mixture. Possible nausea, vomiting, and gastrointestinal pain.

SKIN CONTACT:

Not established for product mixture. May cause irritation, dermatitis and possible skin sensitization given prolonged or repeated skin contact.

3 R.T.E.C.S. 1981-82 CZ6300000

EYE CONTACT:

Not established for product mixture. Possible irritation, tearing, reddening and blurred

vision.

INHALATION:

Not established for product mixture. Possible

respiratory tract, mucous membrane

irritation, sensitization. Symptoms may be delayed and could include dry cough, chest tightness, wheezing, shortness of breath,

asthmatic type symptoms.

ACUTE SYSTEMIC:

Overexposure may cause irritation of the eyes, nose and throat. Severe overexposure

may cause weakness, drowsiness, and

unconsciousness.

CHRONIC SYSTEMIC:

Signs and symptoms from chronic exposure resemble those from acute mishaps but are in part systemically more severe. Extended exposure to isocyanates can cause sensitization resulting in asthmatic type

symptoms.

NOTES: Toxicity testing on the product mixture has not been conducted. Comments listed in HEALTH HAZARD DATA pertain to the isocyanate listed in HAZARDOUS INGREDIENTS.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Persons with preexisting skin disorders may be more susceptible to isocyanate. In persons with impaired pulmonary function, especially those with obstructive airway diseases, the breathing of isocyanate vapors may cause exacerbation of symptoms due to irritant properties of the isocyanate.

SECTION VI: EMERGENCY HEALTH AND FIRST AID PROCEDURES

EYE CONTACT: Immediately flush with water for 15 minutes lifting the upper and lower eyelids occasionally and obtain immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash exposed areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. If irritation is present after washing, get medical attention.

INHALATION: Move to an area with fresh air and free from risk of further exposure. Administer artificial respiration as required. Obtain medical attention.

INGESTION: Do not induce vomiting. Obtain immediate medical attention. If unavailable, contact nearest Poison Control Center.

NOTE TO PHYSICIAN: May cause weakness, drowsiness, unconsciousness, irritation of eyes, nose and throat, nausea, possible sensitization, coughing, tightness of chest (TDI). No known antidote. Supportive therapy is recommended. Careful lavage may be indicted after ingestion.

SECTION VII:

REACTIVITY DATA

STABILITY: Stable under ordinary storage conditions.

HAZARDOUS CONDITIONS TO AVOID: Storage at temperatures above 110 degrees F (43 degrees C) and moisture contact.

INCOMPATIBILITY: (MATERIALS TO AVOID) Oxidizing substances.

CAN HAZARDOUS POLYMERIZATION OCCUR: No.

<u>HAZARDOUS DECOMPOSITION PRODUCTS AND CONDITIONS:</u> If burned, gives off carbon monoxide, carbon dioxide, nitrogen oxides, aromatic amines, aldehydes, and hydrogen cyanide.

SECTION VIII:

SPILL OR LEAK PROCEDURES

RESPONSE TO SPILIS: Stop discharge and contain spill or contaminated material using dike, barrier or other means. Recover with pumping equipment, vacuum truck, sorbent vermiculite or other means. Place contaminated material in suitable container(s) for further handling.

HAZARDS TO BE AVOIDED: Do not flush into stream, other bodies of water or storm sewer. Avoid contact with skin or clothing. Other hazards see Section IV FIRE AND EXPLOSION DATA and Section V HEALTH HAZARD DATA.

SPILL NOTIFICATION: Check Federal and State reporting regulations.

DISPOSAL METHODS:

1 Recycle if feasible.

2 Incinerate at authorized facility.

3 Treatment at industrial or liquid treatment facility.

4 Landfill after solidification in a facility authorized to receive waste.

NOTE: THIS MATERIAL, IF BEING DISCARDED, SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

SECTION IX:

CONTROL MEASURES

RESPIRATORY PROTECTION: Wear NIOSH-MSHA approved self-contained positive pressure breathing apparatus as necessary within equipment limitations. Comply with OSHA 1910.134 (CFR), respiratory protection. Contaminant levels will vary dependent on the operation. Industrial hygiene consultation is recommended to assist in respirator selection, use and training.

FOR HANDS, BODY: Chemical resistant gloves recommended for hand protection, work clothing for general body protection.

FOR EYES: Wear safety glasses, chemical googgles or face shield (eight inch minimum).

<u>VENTILATION:</u> Provide adequate ventilation to minimize inhalation.

Mechanical (local exhaust) recommended for all spray operations and elevated temperature uses.

CH 12086

MATERIAL SAFETY DATA SHEET

FEBRUARY 1984

SECTION I	
MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
CONAP, INC.	716-372-9650
ADDRESS (Number, Street, City, State, and ZIP Code) 1405 Buffalo Street, Olean, New York 14760	
LINOTHONO: DISONONYMS TRADE	NAME AND SYNONYMS
CHEMICAL FAMILY CONAT	HANE CE-1155 Part A
Polyurethane	

SECTION	V 11 -	HAZA	RDOUS INGREDIENTS		
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	1 %	TLV (Units)
PIGMENTS		1	BASE METAL		
CATALYST			ALLOYS	\dashv	
VEHICLE			METALLIC COATINGS	_	
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS	\neg	
OTHERS				+-	
	S OF C	THER L!	DUIDS, SOLIDS, OR GASES	1 %	TLV (Units)
Cellosolve Acetate				25	5 ppm
Xylene				15	100
Free TDI (toluene diisocyanat	e)		less than	2	0.02
TDI Prepolymer = Remainder	-			+	

	LION III - E	PHYSICAL DATA	
ve acetat	\$82-386	SPECIFIC GRAVITY (H2O=1)	1:874
TDI	0.01mm	PERCENT, VOLATILE BY VOLUME (%)	38-45
TDI	6.0	EVAPORATION RATE	30 43
lightly y	ellow liqu	id with ester odor	
	ve acetat TDI TDI	ve acetate 382-326 TDI 0.01mm TDI 6.0	TDI 0.01mm PERCENT, VOLATILE BY VOLUME (%) TDI 6.0 EVAPORATION RATE

SECTION IV - FIRE A	AND EXPLOSION HAZARD DAT		
810F (closed cup) (Xylene)	FLAMMABLE LIMITS	Ld	Uei
Carbon dioxide, or dry chemical ext special fire fighting procedures Personnel who are fighting fires mus dioxide fumes as well as TDI vapors	st be protected against nit	rogen	
UNUSUAL FIRE AND EXPLOSION HAZARDS	, and should wear self-cont		ching apparatus

PAGE (1)

SECTION V - HEALTH HAZARD DATA THRESHOLD LIMIT VALUE -.02 ppm

EFFECTS OF OVEREXPOSURE -

Symptoms similar to a common cold; mucous membrane irritation and irritation of the respiratory tract. Tightness of chest; irritating to eyes; may cause skin irritation. Can be absorbed through the skin.

Exposure can lead to allergenic sensitivity in some individuals.

OTHER HEALTH HAZARDS - In laboratory animal studies, cellosolve acetate has been observed to cause birth defects in offspring of female animals exposed during pregnancy to a concentration of 390 ppm. Administration of cellosolve acetate to laboratory animals has resulted in anemia, bone marrow damage and damage to male reproductive tissues.

Assessment of the results of the studies will assist in defining personal exposure limits.

EMERGENCY AND FIRST AID PROCEDURES - Skin: wash with plenty of soap and water for 5 minutes. Eyes: flush with large amounts of water for 15 minutes, and consult a physician. Internal: Seek immediate medical attention.

	SECTION	<u>VI -</u>	REACTI	VIT	Υ	DAT	Α
--	---------	-------------	--------	-----	---	-----	---

STABILITY UNSTABLE X STABLE CONDITIONS TO AVOID -INCOMPATABILITY (Materials to avoid)-Water, alcohols, strong bases, or surface active agents HAZARDOUS DECOMPOSITION PRODUCTS -Oxides of carbon and nitrogen including CO_2 , CO and HCN

HAZARDOUS POLYMERIZATION May Occur X Will Not Occur CONDITIONS TO AVOID-

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED - Spilled material should be covered with sawdust placed in open top containers, and treated with a solution of 90% water, 8% ammonium hydroxide and 2% detergent. Let sit in open top containers for 48 hours before closing container (CO2 released).

WASTE DISPOSAL METHOD - Waste disposal should be in accordance with local, state, and federal environmental control regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION - Approved masks or respirators for organic vapors and particulate matter as necessary. If spraying in poorly ventilated areas positive pressure air supplied masks are recommended.

VENTILATION local exhaust.

PROTECTIVE GLOVES - Chemically resistant rubber or plastic EYE PROTECTION - Protective goggles

OTHER PROTECTIVE EQUIPMENT - Eye wash stations and safety showers.

Section IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING - Must be stored in tightly closed containers and protected from moisture. Avoid temperatures above 90°F or below 70°F.

OTHER PRECAUTIONS -Practice good personal hygiene.

CH 12086

MATERIAL SAFETY DATA SHEET

March 1984

	CTION I
MANUFACTURER'S NAME CONAP, INC.	EMERGENCY TELEPHONE NO.
ADDRESS (Number, Street, City, State, and ZIP Code) 1405 BUFFALO STREET, OI FAN NEW YORK	14760 716-372-9650
Polyurethane Curing Agent	CONATHANE CE-1155, PART B
Polyols	FORMULA

	1		RDOUS INGREDIENTS		
PAINTS, PRESERVATIVES, & SOLVENTS	%	(Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		-
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
	S OF (OTHER L!	DUIDS, SOLIDS, OR GASES	%	TLV (Units)
Cellosolve acetate 🗡			17	.62	25
Toluene			17	53	200
<u> </u>					
				\vdash	

SEC	CTION III -	PHYSICAL DATA	
BOILING POINT (°F.)	230°F	SPECIFIC GRAVITY (H2O=1)	.87
VAPOR PRESSURE (mm Hg.)	22.4	PERCENT, VOLATILE BY VOLUME (%)	38-45
VAPOR DENSITY (AIR=1)		EVAPORATION RATE	130 43
SOLUBILITY IN WATER			
APPEARANCE AND ODOR Liquid; aro	matic odor		·

SECTION IV - FIRE A	ND EXPLOSION HAZARD DATA
45°F (closed cup) (toluene) EXTINGUISHING MEDIA CO2 and dry chemica	in air % by volume 1.3 6.7
SPECIAL FIRE FIGHTING PROCEDURES Water application will decrease into	
UNUSUAL FIRE AND EXPLOSION HAZARDS	

SECTION V - HEALTH HAZARD DATA THRESHOLD LIMIT VALUE - None established on this product
THRESHOLD LIMIT VALUE - None established on this product
EFFECTS OF OVEREXPOSURE - ACUTE - Irritation of nose and throat by vapors, may cause headaches, nausea and vomiting; Contact with eyes or skin may be irritating.
CHRONIC -
OTHER HEALTH HAZARDS - In laboratory animal studies, cellosolve acetate has been observed to cause birth defects in offspring of female animals, exposed durin pregnancy to a concentration of 390 ppm. Administration of cellosolve acetate to laboratory animals has resulted in anemia, bone marrow damage and damage to male reproductive tissues.
Assesment of the results of the studies will assist in defining personal exposure limits.
EMERGENCY AND FIRST AID PROCEDURES - Remove to fresh air, wash affected area with water, if discomfort persists, get medical care.
SECTION VI - REACTIVITY DATA
STABILITY UNSTABLE X STABLE CONDITIONS TO AVOID - Strong alkalies INCOMPATABILITY (Materials to avoid)-
HAZARDOUS DECOMPOSITION PRODUCTS - Oxides of carbon
HAEARDOUS POLYMERIZATION May Occur Will Not Occur CONDITIONS TO AVOID-
SECTION VII - SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED - Remove any source of ignition. Soak up in absorbant material.
WASTE DISPOSAL METHOD - Incinerate or landfill according to local, state and federal regulati
SECTION VIII - SPECIAL PROTECTION INFORMATION
RESPIRATORY PROTECTION - If vapor concentration is above 2% use an air supplied mask.
<u>VENTILATION</u> - Local preferred. Mechanical acceptable.
PROTECTIVE GLOVES - Synthetic rubber or plastic EYE PROTECTION - Goggles OTHER PROTECTIVE EQUIPMENT - Eye bath and safety shower
Section IX - SPECIAL PRECAUTIONS
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING - Caution! Combustible. Breathing of Vapor is harmful.
OTHER PRECAUTIONS - Keep away from heat, sparks and fire, keep container tightly closed.

Physical <u>State</u>	-	Manufacture	Import	Process	Store	Dispose	Transpor
Dust	<1 micron						
	1 to <5 microns						
	5 to <10 microns						
Powder	<1 micron	*	-				
	1 to <5 microns						
	5 to <10 microns						
Fiber	<1 micron						
	1 to <5 microns					***************************************	
	5 to <10 microns						
Aerosol	<1 micron						
	1 to <5 microns						
	5 to <10 microns						
Aerosol	1 to <5 microns						

[_] Mark (X) this box if you attach a continuation sheet.

SECTION 5 ENVIRONMENTAL FATE

	cate the rate constants for the following transformation processes.	
	Photolysis:	
	Absorption spectrum coefficient (peak) 871 (1/M cm) at 284	
:	Reaction quantum yield, 6 No Thrormanon at	nm (
]	Direct photolysis rate constant, k _p , at < 1.7 x10 ⁻³ 1/hr when No ₂ ka	
	Oxidation constants at 25°C: Oxidation constants at 25°C: O.37/hr.(1)	re is
:	For 102 (singlet oxygen), kox	1/H
1	For RO ₂ (peroxy radical), k _{ox}	1/M
2. I	Five-day biochemical oxygen demand, BOD, Not APPLICABLE	mg/l
i. 1	Biotransformation rate constant:	
1	For bacterial transformation in water, k No OxyGEN CONSUMED	1/hr
:	Specify culture)
e. I	Hydrolysis rate constants:	
1	For base-promoted process, k,	1/M
3	For acid-promoted process, k,	1/M
I	For neutral process, k _N	1/hr
. (Chemical reduction rate (specify conditions) Not Expected	۵)
_		
. 0	Other (such as spontaneous degradation) POLYUPEA FORMATION	
<u>.1</u>	UNDER HYDROLYTIC CONDITIONS (1)	

PART	В	PARTITION COEFFICIENT	S		
5.02	a.	Specify the half-li	fe of the listed sub	bstance in the followin	g media.
		<u>Media</u>		Half-life (specif	y units)
		Groundwater	۷ <	= ! DAY IN HOO	SOUTTAN
		Atmosphere		12-	
		Surface water		1 DAY IN HO	SOLUTION
		Soil	<u>~ 1</u>	DAY	
	ь.	Identify the listed life greater than 24	substance's known to hours.	ransformation products	that have a half-
		CAS No.	Name	Half-life (specify units)	<u>Media</u>
		NO INFORMATION	·		in
					in
					in
					in
5.03				ient, K _{ow} <u>Beacis</u> l	•
5.04				t, K _d PEACIS L	•
5.05	Spec	eify the organic carbo	on-water partition	No INFO	at 25°C
5.06	Spec	ify the Henry's Law C	Constant, H	No INFO	<u>SMATION</u> atm-m³/mole
					• ·

[] Mark (X) this box if you attach a continuation sheet.

	Bioconcentration Factor	Species		Test ¹	
	NONE DETECTED	MOINIA MACROCOPA STRAUS	NOT	DEFINED	<u>، را </u>
					<u></u>
		-		-	
	¹ Use the following codes t	o designate the type of test:			
	F = Flowthrough S = Static	to designate the type of test:			
	5 - State				
)	MOBAY CORPORATIO	by, Comprehensive Assess	MENT	4NT>	
		, SECTION 5, ENVIRONME		•	
	USED WITH PERMIS		101170	, प्राट	
				•	
	•				

01 In accordance which descri	e with the instru bes the treatment	ctions, provi	de a residual for residuals	treatment block identified in o	flow diagra question 7.0
] Process type					

		-			
	·				
•				,	
	· .				

<u>CBI</u>	process	type, photo	cesidual (rea ocopy this qu he instructio	estion and co	in your residu low diagram is emplete it sepa er explanation	provided for	more than
	a.	b.	c.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ^{4,5,6}	Other Expected Compounds	Estimated Concentrations (% or ppm)
,							
<u>-</u>							
							-
_							
_			<u></u>				•
-							٠

8.05 continued below

[_] Mark (X) this box if you attach a continuation sheet.

8.05 (continued)

¹Use the following codes to designate the type of hazardous waste:

I = Ignitable

C = Corrosive

R = Reactive -

E = EP toxic

T = Toxic

H = Acutely hazardous

²Use the following codes to designate the physical state of the residual:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

Mark (X) this box if you attach a continuation sheet.

8.05	(continued)	

3
For each additive package introduced into a process stream, specify the compounds
that are present in each additive package, and the concentration of each component.
Assign an additive package number to each additive package and list this number in
column d. (Refer to the instructions for further explanation and an example.
Refer to the glossary for the definition of additive package.)

	Additive Package Number		Components of .Additive Package	Concentrations (% or ppm)
	1			
		•		
	2			
	3			
	4			
				4974-14
	5	•		
		4-		•
	⁴ Use the following	codes to d	esignate how the concentra	tion was determined:
	A = Analytical re E = Engineering j	esult		
8.05	continued below			
[_]	Mark (X) this box	if you atta	ch a continuation sheet.	
			56	

8.05	(continued)	
í	,	•
	⁵ Use the following codes to designate how the concentration was	measured:

V = Volume
V = Weight

Code	Method	Detection Limit(± ug/l)
1		
3		
4		
5		
6	•	

[_] Mark (X) this box if you attach a continuation sheet.

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Mark (X) the appropriate coluthe following data elements felement the year in which you records for that data element explanation and an example.)	or hourly a	ind salaried	workers. Specity ords and the number	r of years the
<u>p</u>		ntained for	: Year in Which Data Collection	Number of Years Records
Data Element	Hourly Workers	Salaried Workers	Began	Are Maintained
Date of hire				
Age at hire				
Work history of individual before employment at your facility				
Sex				
Race				
Job titles				
Start date for each job title				
End date for each job title				
Work area industrial hygiene monitoring data	1972			TWOIF
Personal employee monitoring data	1981			
Employee medical history	1972			
Employee smoking history	1972			
Accident history	1972			
Retirement date				
Termination date				
Vital status of retirees				
Cause of death data				

[_] Mark (X) this box if you attach a continuation sheet.

]					
• •	a.	b.	c.	d.	е.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hour:
	Manufacture of the	Enclosed	<u> </u>		
	listed substance	Controlled Release	NA		-
		0pen	-4/4		
	On-site use as	Enclosed	N/A		
	reactant	Controlled Release	NIA		
		0pen	N/A	-	
	On-site use as	Enclosed	NIA		
	nonreactant	Controlled Release	N/4	•	-
		0pen	MA		
	On-site preparation	Enclosed	<u> </u>	4	40
	of products	Controlled Release	and the state of t		•
		Open		A.	

3 Provide a descriptive encompasses workers listed substance.	e job title for each labor category at your facility that who may potentially come in contact with or be exposed to the
1	
Labor Category	Descriptive Job Title
A	455EMBLER / WIRE FORMER.
В	
С	
D	
E	
F	
G	
н	
I	
J	
•	
	•
	·

9.04	In accordance with the indicate associated wo	instructions, rk areas.	provide your	process b	lock flow dia	gram(s) and
<u>CBI</u>						
	Process type	NA				
-						
	· ·					
			•		•	
		•				
•						
				·		•
					•	
		•				
	·					
	•					

	s question and complete it separately for each process type.
Process type	
Work Area ID	Description of Work Areas and Worker Activities
. 1	FLECTEBNIC MHIFR - FLOW TABLE
2	
3	
4	
5	•
6	
7	
8	
9	
10	
	•

[_]	Process type	e					
	Work area .	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • •			
	Labor Category	Number of Workers Exposed	Mode of Expos (e.g., di skin cont	rect	Physical State of Listed Substance ¹	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
			<u> </u>		OL	3	40
							
					·		
							
	GC = Gas (tempe. GU = Gas (tempe. include SO = Solid Use the folio A = 15 minus B = Greater exceedir C = Greater	condensible at rature and presuncondensible a rature and presues fumes, vapo	ambient ssure) at ambient ssure; ers, etc.) designate av s, but not	SY = AL = OL = IL = erage le E = 0	Sludge or sl Aqueous liqu Organic liqu Immiscible l (specify pha 90% water, le ength of expo	urry id id iquid ses, e.g., 0% toluene) sure per day: 2 hours, but rours 4 hours, but rours	not

9.07	Weighted Average (egory represented in question 9.06 TWA) exposure levels and the 15-min stion and complete it separately fo	nute peak exposure levels.
CBI			
[_]	Process type	NOT DOLIE	
	Work area		
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Leve. (ppm, mg/m³, other-specify)
	-		•
	•		
	•		
	MATERIAL PROPERTY AND ADMINISTRATION OF THE PROPERT		
	· · · · · · · · · · · · · · · · · · ·		
•			
			,

<u> </u>		No r	U ON ITU	ring.			
ַ []	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Record Maintained
	Personal breathing zone						
	General work area (air)						
	Wipe samples						
	Adhesive patches						
	Blood samples						
	Urine samples						
	Respiratory samples						
	Allergy tests		 				
	Other (specify)						
	Other (specify)						
	Other (specify)						
							
	¹ Use the following of A = Plant industria B = Insurance carri C = OSHA consultant D = Other (specify)	l hygieni: er		takes the	monitorin	g samples:	

	Sample Type		Sampling and Analyt	ical Methodolo	<u>sy</u>
9.10 <u>CBI</u>	If you conduct persona specify the following	l and/or ambien information for	t air monitoring fo each equipment typ	r the listed s e used. Averaging	ubstance,
[<u>]</u>]	Equipment Type ¹		Manufacturer	Time (hr)	Model Number
	"Use the following code A = Passive dosimeter B = Detector tube C = Charcoal filtration D = Other (specify) Use the following code	on tube with pur	пр		
	E = Stationary monitor F = Stationary monitor G = Stationary monitor H = Mobile monitoring I = Other (specify)	rs located with: rs located with: rs located at pl	in work area in facility lant boundary		
	² Use the following code A = ppm B = Fibers/cubic cent C = Micrograms/cubic	imeter (f/çc)	detection limit un	its:	

	Total Dono			(Frequency	
	Test Desc	ription		(weekly, mo	nthly, yearly	, etc.
	NA		 			
						•
				-		
			 			
			÷			
•						
	·					

9.12 <u>CBI</u>	Describe the engineering co to the listed substance. P process type and work area.	hotocopy this			
[_]	Process type	•	-		
	Work area	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• •	
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Ventilation:				
	Local exhaust	<u> </u>	1983		******
	General dilution				
	Other (specify)				
	Vessel emission controls	4/4			
	Mechanical loading or packaging equipment				
,	Other (specify)				
					The state of the s
					·

Work area			
Equipm	ent or Process Modif	ication	Reduction in Worl Exposure Per Year
·			
		-	
**			
		•	
		•	

PART D PERSONAL PROTECTIVE AND SAFETY EQUIPMENT 9.14 Describe the personal protective and safety equipment that your workers wear in each work area in order to reduce or eliminate their exposure to the lists substance. Photocopy this question and complete it separately for each proce and work area. CBI	
in each work area in order to reduce or eliminate their exposure to the lists substance. Photocopy this question and complete it separately for each proce and work area. CBI Process type Work area Equipment Types (Y/N) Respirators (Y/N) Respirators (Y/N) Safety goggles/glasses Y Face shields (Y/N) Bib aprons (Chemical-resistant gloves (Y/N)) Other (specify)	
Wear or Use (Y/N) Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	sted
Equipment Types Equipment Types (Y/N) Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	
Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

<u>BI</u>]	Process type	N/A			·	
r	Work Area	Respirator Type	Average Usage	Fit Tested (Y/N)	Type of Fit Test	Frequency o Fit Tests (per year)
	A = Daily B = Weekly C = Monthly D = Once a y E = Other (s		gnate average u	sage:		
		lowing codes to desi	gnate the type	of fit tes	:t:	

eliminate worker (ne work practices and admexposure to the listed subsequents, mark areas with warninges, provide worker trainglete it separately for ea	ibstance (e.g. ng signs, insu: ning programs.	re worker dete etc.). Phote	ection and ocopy this
Process type	. <u>N4</u>			•
leaks or spills o separately for ea	often you perform each hof the listed substance. ch process type and work	Photocopy thi	sk used to cl s question an	ean up routine id complete it
leaks or spills o separately for ea Process type	the listed substance. ch process type and work SPLLS. Less Than	Photocopy thi area.	3-4 Times	More Than 4
leaks or spills o separately for ea Process type Work area Housekeeping Task	the listed substance. ch process type and work SPLLS. Less Than	Photocopy thi	s question an	d complete it
leaks or spills o separately for ea Process type Work area Housekeeping Task Sweeping	the listed substance. ch process type and work SPLLS. Less Than	Photocopy thi area.	3-4 Times	More Than 4
leaks or spills o separately for ea Process type Work area Housekeeping Task Sweeping Vacuuming	the listed substance. ch process type and work SPLLS. Less Than Once Per Day	Photocopy thi area.	3-4 Times	More Than 4
leaks or spills o separately for ea Process type Work area Housekeeping Task Sweeping Vacuuming Water flushing of	the listed substance. ch process type and work SPLLS. Less Than Once Per Day	Photocopy thi area.	3-4 Times	More Than 4
leaks or spills o separately for ea Process type Work area Housekeeping Task Sweeping Vacuuming	the listed substance. ch process type and work SPLLS. Less Than Once Per Day	Photocopy thi area.	3-4 Times	More Than 4
leaks or spills o separately for ea Process type Work area Housekeeping Task Sweeping Vacuuming Water flushing of	the listed substance. ch process type and work SPLLS. Less Than Once Per Day	Photocopy thi area.	3-4 Times	More Than 4
leaks or spills o separately for ea Process type Work area Housekeeping Task Sweeping Vacuuming Water flushing of	the listed substance. ch process type and work SPLLS. Less Than Once Per Day	Photocopy thi area.	3-4 Times	More Than 4
leaks or spills o separately for ea Process type Work area Housekeeping Task Sweeping Vacuuming Water flushing of	the listed substance. ch process type and work SPLLS. Less Than Once Per Day	Photocopy thi area.	3-4 Times	More Than 4

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the releas is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RQ.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART	A GENERAL INFORMATION	_
10.01 CBI	Where is your facility located? Circle all appropriate responses.	
[_]	Industrial area	
	Urban area	
	Residential area	3
	Agricultural area	4
	Rural area	5
	Adjacent to a park or a recreational area	5
	Within 1 mile of a navigable waterway 7	,
	Within 1 mile of a school, university, hospital, or nursing home facility 8	}
	Within 1 mile of a non-navigable waterway	3
	Other (specify)10	
	Mark (X) this box if you attach a continuation sheet.	

10.02	Specify the exact location of you is located) in terms of latitude (UTM) coordinates.	r facility (from ce and longitude or Un	entral point whe niversal Transve	re process unit rse Mercader
	Latitude	••••••••••	40 .	51, 34
	Longitude	•••••••	74 .	03 . 73
	UTM coordinates Zone	, Nort	hing, F	Casting
10.03	If you monitor meteorological condithe following information.	litions in the vici	nity of your fac	ility, provide
	Average annual precipitation	•••••	45	inches/yea
	Predominant wind direction	•••••••		
10.04	Indicate the depth to groundwater Depth to groundwater			meters
10.05 CBI	For each on-site activity listed, listed substance to the environmenty, N, and NA.)	indicate (Y/N/NA) a t. (Refer to the i	ll routine releanstructions for	ases of the a definition o
[_]	On-Site Activity	Env Air	ironmental Relea	ise Land
	Manufacturing			N
	Importing	N	N	N
	Processing	Y	_ H	N
(Otherwise used	_ N	N	Ν.
1	Product or residual storage	N	N.	N
I	Disposal	_N_	N	H
1	Transport	_ N	Н	<u> </u>
l Ma	ark (X) this box if you attach a cor			

10.08 CBI	for each process stre process block or resi	technologies used to minimize release of eam containing the listed substance as id dual treatment block flow diagram(s). Prately for each process type.	entified in your
[_]	Process type		
	Stream ID Code	Control Technology	Percent Efficiency
			
		·	
			•
		ou attach a continuation sheet.	

residual treatment b source. Do not incl sources (e.g., equip	ons Identify each emission point source containing the lister of a Stream ID Code as identified in your process block or lock flow diagram(s), and provide a description of each point ude raw material and product storage vents, or fugitive emissiment leaks). Photocopy this question and complete it separate
for each process type	PLATFORM ASSEMBLY
Point Source ID Code	Description of Emission Point Source
_001	FLOW TABLE
	•

(x)

thi

S

⁴Average Emission Factor — Provide estimated (± 25 percent) emission factor (kg of emission per kg of production of listed substance)

S	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building Height(m)	Building Width(m) ²	V •
	MA							
						•		~~~
								
								
		•						
					-			
¹ He	ight of	attached o	or adjacent	building				
²Wi	dth of	attached or	r adjacent bu	uilding				
³Us	e the f	ollowing co	odes to desig	gnate vent t	ype:			
	= Horiz = Verti							
								•

•	rhotocopy this question and complete	it separately for each emission point sour
]	Point source ID code	<u>NA</u>
	Size Range (microns)	Mass Fraction ($\% \pm \%$ precision
	< 1	
	≥ 1 to < 10	
	≥ 10 to < 30	
	≥ 30 to < 50	
	≥ 50 to < 100	
	≥ 100 to < 500	
	≥ 500	
		Total = 100%
	•	
	•	•

10.13	types listed which are exp according to the specified the component. Do this fo residual treatment block f not exposed to the listed	weight percer r each proces low diagram(s substance.	listed suent of the ss type is). Do not the state of the	bstance a e listed dentified ot includ	nd which substance in your e equipme	are in see passing process bent types	through clock or that are
CBI	process, give an overall p exposed to the listed subs for each process type.	tance. Photo	copy thi	year tha s questio	t the pro n and com	cess type plete it	ris separatel
[_]	Process type	A					
	Percentage of time per year	• • • • • • • • • • • •	••••••	• • • • • • • •	• • • • • • • •	to this p	-
	,		of Liste	Substan	ce in Pro	cess Stre	am
	Equipment Type Pump seals ¹	Less than 5%	5-10%	11-25%	26-75%	76-99%	Greater than 99
	Packed	NA					
	Mechanical						
	Double mechanical ²						
	Compressor seals ¹				· , , , , ,		
	Flanges						
	Valves						-
	Gas ³						
	Liquid						
	Pressure relief devices ⁴ (Gas or vapor only)						
	Sample connections						
	Gas						
	Liquid						
	Open-ended lines ⁵ (e.g., purge, vent)						
	Gas						
	Liquid						
	¹ List the number of pump and compressors	d compressor	seals, ra	ather than	n the num	ber of pu	mps or
0.13	continued on next page			•			

10.13	(continued)								
•	² If double mechanical seal greater than the pump stu will detect failure of th with a "B" and/or an "S",	e seal system, the b	ind/ox oxuinnod mi	th a games (A) this					
	³ Conditions existing in th	³ Conditions existing in the valve during normal operation							
	⁴ Report all pressure relie control devices			equipped with					
	⁵ Lines closed during normal operations	l operation that wou	ıld be used during	maintenance					
10.14 <u>CBI</u>	Pressure Relief Devices wire pressure relief devices ide devices in service are contenter "None" under column of	entified in 10.13 to trolled. If a press	indicate which n	roccuro molies					
	a. Number of Pressure Relief Devices	b. Percent Chemical in Vessel	c. Control Device	d. Estimated Control Efficiency ²					
	<u>N4</u>			·					
	,								
`									
	Refer to the table in quest; heading entitled "Number of Substance" (e.g., <5%, 5-10)	Components in Servi	l the percent rang ce by Weight Perc	e given under the ent of Listed					
,	The EPA assigns a control envith rupture discs under none efficiency of 98 percent for conditions	.Mat oneraling copos	TIANC THA EUA A	7 <i>7</i> 1 1					
J Ma	ark (X) this box if you atta	ch a continuation s	heet.						

	place, complete the procedures. Photoco type.	py this question a	nd complete	it separat	ely for each	process
<u>CBI</u>			•			,
[_]	Process type	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •	NA		
	-	Leak Detection Concentration	_	•		
	Equipment Type	(ppm or mg/m³) Measured at Inches	Detection	Frequency of Leak Detection	Initiated (days after	
		from Source	<u>Device</u>	(per year)	detection)	<u>initiated)</u>
	Pump seals					
	Packed _					
	Mechanical					
	Double mechanical					
	Compressor seals		 	·		
	Flanges		 			
	Valves					
	Gas -					
	Liquid					
	Pressure relief devices (gas or vapor only)			<u>.</u>		
	Sample connections					
	Gas					
	Liquid					*
	Open-ended lines					
	Gas					
	Liquid					
						
	¹ Use the following co			vice:		
	POVA = Portable orga FPM = Fixed point mo 0 = Other (specify)	nitoring				

[_]	Vessel	Roof	of Stored	Throughput (liters	Filling Rate	Filling Duration	Vessel Inner Diameter	Vessel Height	Operating Vessel Volume	Vessel	Design Flow_	Vent Diameter	Control Efficiency	Basis for
	Type*	Seals ²	Materials'	per year)	(gpm)	<u>(min)</u>	<u>(m)</u>	<u>(m)</u>	_(1)	Controls ⁴	Rate ⁵	(cm)	(%)	Estimate
	14				· · · · · · · · · · · · · · · · · · ·		·							
			****		•								*	
		_												
					-									
						•						***************************************		
														
								·····						
	lico ti	no follor					2			 .				
	use u	Fixed ro		designate ve	sset typ	e:						te floatin	g roof seals	:
	F.		~_				uot	= mecr	namicai	shoe, pri	mary			
	CIF :	- Contact	internal flo	pating roof	_		MS2	⇒ Shoe						
	CIF =	Contact Nonconta	internal floact internal floating ro	floating roo	£		MS2 MS2	* Shoo R = Rim-	-mounte	d, secondar	ry	lee bel	primare	
	CIF = NCIF = EFR = P =	ContactNoncontaExternalPressure	nct internal I floating ro e vessel (ind	floating roo		g)	MS2 MS21 LM1 LM2	= Shoo R = Rim Liqu = Rim	-mounted uid-mour -mounted	d, secondar nted resil: d shield	ry	lled seal,	primary	
	CIF = NCIF = EFR = P = H = H	ContactNoncontaExternal	nct internal l floating ro e vessel (ind cal	floating roo		g)	MS2 MS21 LM1 LM2 LMW	<pre># Shoot R = Rim- = Liqu = Rim- = Weat</pre>	-mounted uid-mounted -mounted ther sh	d, secondar nted resil: d shield ield	ry ient fil			
	CIF = NCIF = EFR = P = H = H	 Contact Nonconta External Pressure Horizont 	nct internal l floating ro e vessel (ind cal	floating roo		g)	MS2 MS21 LM1 LM2 LMW VM1 VM2	 Shoot R = Rim Liquit Rim Weat Vapx Rim 	-mounted uid-mounted -mounted ther shi or mounted -mounted	d, secondar nted resili d shield ield ted resilied d secondary	ry ient fil ent fill			
	CIF = NCIF = EFR = P = H = U =	Contact Nonconta External Pressure Horizont Undergro	act internal l floating ro e vessel (ind al ound	floating root oof licate pressu	re ratin		MS2 MS21 LM1 LM2 LMW VM1 VM2 VMW	* Shoot R = Rim = Liqu = Rim = Weat = Vapx = Rim = Weat	mounteduid-mounted mounted ther ships or mounted ther ships	d, secondar nted resilidishieldi ted resilidisecondary ieldisecondary	ry ient fil ent fill y	ed seal,	primary	
	CIF = NCIF = FR = FR = U = SINGLE	Contact Nonconta External Pressure Horizont Undergro	act internal l floating ro e vessel (ind al ound	floating roo	re ratin		MS2 MS21 LM1 LM2 LMW VM1 VM2 VMW	* Shoot R = Rim = Liqu = Rim = Weat = Vapx = Rim = Weat	mounteduid-mounted mounted ther ships or mounted ther ships	d, secondar nted resilidishieldi ted resilidisecondary ieldisecondary	ry ient fil ent fill y	ed seal,	primary	
	CIF = NCIF = FR = FR = U = V = V = V = V = V = V = V = V = V	Contact Nonconta External Pressure Horizont Undergro the weight than floa	ct internal I floating re e vessel (indical ound I percent of ating roofs rate the emi	floating root of licate pressu the listed s .ssion contro	re rating ubstance 1 device	. Include	MS2 MS21 LM1 LM2 LMW VM1 VM2 VMW the total	* Shoot R = Rim- = Liqu = Rim- = Veau = Rim- = Weau to volati	mounted id-mounted ther ships or mounted ther ships ther ships decify:	d, secondar nted resilid d shield ield ted resilid d secondary ield	ry ient fill ent fill y nt in pa	ed seal,	primary	
	CIF = NCIF = FR = P = U = 3 Indica 4 Other 5 Gas/va 6 Use th	Contact Nonconta External Pressure Horizont Undergro the weight than floa	ct internal floating re evessel (indical cund percent of ating roofs rate the emi	floating root oof licate pressu	re rating ubstance 1 device	. Include	MS2 MS21 LM1 LM2 LMW VM1 VM2 VMW the total	* Shoot R = Rim- = Liqu = Rim- = Veau = Rim- = Weau to volati	mounted id-mounted ther ships or mounted ther ships ther ships decify:	d, secondar nted resilid d shield ield ted resilid d secondary ield	ry ient fill ent fill y nt in pa	ed seal,	primary	

PART E NON-ROUTINE RELEA	CFC	RELE	ROUTINE	: N	Ε	PART
--------------------------	-----	------	---------	-----	---	------

10.23	Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases.
	2130 dil leledses.

_	1	4

••1	Release	. <u>s</u>	Date Started	Time _(am/pm)	Date Stopped	Time _(am/pm)
	1			· 		(GIII)
	2					
	3	-				
	4					· · · · · · · · · · · · · · · · · · ·
	5	_				
	6					

10.24 Specify the weather conditions at the time of each release.

Release	Wind Speed (km/hr)	Wind Direction	Humidity(%)	Temperature(°C)	Precipitation(Y/N)
1	•				
2					
4					
5 [·]					
6					
				···	

[_]	Mark ((X)	this	box i	f you	attach a	continuați	on sheet.	

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